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FIG. 7 is a view as in Fig. 4 but shown with the clip in its half-way inserted spread posture.

Detailed Description

Referring to the drawings and with particular reference to the claims herein, the present construction modifies the connection means between a barrel extension such as item 120 and a barrel such as 40 and also receiver sides such as items (plates) 117L and 117R of the aforesaid patent 4,693,170 as shown in Figs. 2, 3, 13 and 31 thereof. In said patent the connection is made between all three of these structures by four rivets 118 which are headed over (clinched) on the outside of plates 117L and 117R. In this construction shown particularly in applicants' Fig. 6 taken from Fig. 31 of said patent and wherein additional new numbering is added where necessary for clarity starting at 500, rivets 118 tightly nest in transverse grooves 500 across the top and bottom of the inner end (breech end) of barrel 40 and thereby fix the barrel to barrel extension 120 and thus to receiver section 41 (see aforesaid patent). This structure, of course, prevents removal of the barrel which can cause great inconvenience where it is desired to replace a damaged barrel or to replace the barrel with another type, e.g., from shotgun to rifle.

Referring to the present drawings wherein the numbering of parts, where relevant, is the same as in said 4,693,170 patent, the barrel extension 120 having shell receiving cavity 505 is preferably formed on the outside surfaces of both sides with locator lands 502 having first edge portions 503 which can be of any configuration but preferably of a shape to coincide substantially with second edge portions 501 of apertures 504 formed thru each side 117L and 117R of receiver section 41. Welds such as 506 are formed between the adjacent edges of the lands, or sides of 120 where lands are not provided, and of apertures 504. In the drawing (Fig. 5) excessive clearance between these adjacent first and second edges is shown, as well as unwelded portions, for clarity. Precision mating of these edges



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thru each plate 117L and 117R to allow insertion of the arms and to allow the inner edge 536 of body portion 516 to lie flush with the barrel extension side. It is preferred that a cut-out 538 be provided in said inner edge 536 to allow for the insertion of a tool such as a screwdriver or knife blade to assist in extracting the clip, if necessary. It is noted that the clip 508 can be inserted thru either side of the receiver section.

As shown in the drawings, the aforementioned barrel clamping mechanism comprises a slot 540 cut longitudinally thru the bottom wall portion 542 of the forward portion of the barrel extension 120 from the front edge 544 thereof back to approximately the barrel abutment shoulder 546 on the wall 547 of the barrel extension 120 bore. Extending down on the sides of slot 540 are projections 548 and 550. One projection is provided with a threaded bore 552 which receives a tightening means such as a bolt or Allen screw or the like 554. The clearance between the extension bore wall 547 and the barrel breech end 526 is small such that a tightening turn or so of screw 554 will squeeze wall 547 against breech end 526 of the barrel and further secure it within the extension bore.

The invention has been described in detail with particular reference to preferred embodiments thereof, but it will be understood that variations and modifications will be effected within the spirit and scope of the invention.